Job No.: CTCE/BBMP/W.No.17/KRIDL/CEMENT/2011-12 Date: 01.06.2011

TEST REPORT

CLIENT	:	**Asst. Executive Engineer,** Rajarajeshwarinagara (Projects), BBMP, Bangalore.
AGENCY	:	**Technical Manager,** KRIDL, Bangalore.
NAME OF THE WORK	:	Maintenance of Toilets at JP Park in Ward No. 17 in Rajarajeshwarinagara Zone, BBMP, Bangalore.
REFERENCE	:	AEE(P)/RRNZ/BBMP/PR/118/2011-12 Dated: 28.05.2011
SAMPLE ID	:	CEMENT
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-1989
1	a) Initial Setting Time	IS-4031 (Part -5)	167 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	485 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	26.00 %	-

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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ರಾಜರಾಜೇಶ್ವರಿನಗರ ಯೋಜನೆ ಉಪ-ವಿಭಾಗ-೨
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

Job No.: CTCE/BBMP/W.No.17/KRIDL/SAND/2011-12 : 01.06.2011

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Rajarajeshwarinagara (Projects), BBMP, Bangalore.

Agency : **Technical Manager,** KRIDL, Bangalore.

Name of Work : Maintenance of Toilets at JP Park in Ward No. 17 in Rajarajeshwarinagara Zone, BBMP, Bangalore.

Reference : AEE(P)/RRNZ/BBMP/PR/118/2011-12 Dated: 28.05.2011

Date of Testing : 01.06.2011

Material : Sand Total Wt. of Aggregates in gms **2000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	78	3.90	3.90	96.1	90-100
2.36	232	11.60	15.50	84.5	75-100
1.18	397	19.85	35.35	64.7	55-90
600 Micron	516	25.80	61.15	38.9	35-59
300 Micron	528	26.40	87.55	12.5	8-30
150 Micron	146	7.30	94.85	5.1	0-10

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ರಾಜರಾಜೇಶ್ವರಿನಗರ ಯೋಜನೆ ಉಪ-ವಿಭಾಗ-02
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

Job No.: CTCE/BBMP/W.No.17/KRIDL/AGG/2011-12 : 02.06.2011

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Rajarajeshwarinagara (Projects), BBMP, Bangalore.

Agency : **Technical Manager,** KRIDL, Bangalore.

Name of Work : Maintenance of Toilets at JP Park in Ward No. 17 in Rajarajeshwarinagara Zone, BBMP, Bangalore.

Reference : AEE(P)/RRNZ/BBMP/PR/118/2011-12 Dated: 28.05.2011

Date of Testing : 02.06.2011

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **25100**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	975	3.88	3.88	96.12	95-100
20	16237	64.69	68.57	31.43	30-70
10	5123	20.41	88.98	11.02	10-35
4.75	2347	9.35	98.33	1.67	0-5

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ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

Job No.: CTCE/BBMP/W.No.17/KRIDL/AGG/2011-12 : 02.06.2011

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Rajarajeshwarinagara (Projects), BBMP, Bangalore.

Agency : **Technical Manager,** KRIDL, Bangalore.

Name of Work : Maintenance of Toilets at JP Park in Ward No. 17 in Rajarajeshwarinagara Zone, BBMP, Bangalore.

Reference : AEE(P)/RRNZ/BBMP/PR/118/2011-12 Dated: 28.05.2011

Date of Testing : 02.06.2011

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Tabel - 1

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	189	3.78	3.8	96.22	95-100
10	3257	65.14	68.9	31.08	25-55
4.75	1312	26.24	95.2	4.84	0-10

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Building & Highway Material Testing Laboratory

An ISO 9001:2008 Certified Company

Job No.: CTCE/BBMP/W.No.17/KRIDL/STEEL/2011-12

13.06.2011

TEST REPORT ON REINFORCEMENT STEEL

Client	:	**Asst. Executive Engineer,** Rajarajeshwarinagara (Projects), BBMP, Bangalore.
Agency	:	**Technical Manager,** KRIDL, Bangalore.
Name of the work	:	Maintenance of Toilets at JP Park in Ward No. 17 in Rajarajeshwarinagara Zone, BBMP, Bangalore.
Reference	:	AEE(P)/RRNZ/BBMP/PR/118/2011-12 Dated: 28.05.2011
Date of Test	:	13.06.2011
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm²	Tensile strength (Ultimate stress) N/mm²	Elongation percent gauge length		
1	8	0.40	512	545	12.75	O.K	O.K
2	10	0.62	516	548	12.90	O.K	O.K

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Job No.: CTCE/BBMP/W.No.17/KRIDL/STEEL/2011-12 13.06.2011

TEST REPORT ON REINFORCEMENT STEEL

Client	:	**Asst. Executive Engineer,** Rajarajeshwarinagara (Projects), BBMP, Bangalore.
Agency	:	**Technical Manager,** KRIDL, Bangalore.
Name of the work	:	Maintenance of Toilets at JP Park in Ward No. 17 in Rajarajeshwarinagara Zone, BBMP, Bangalore.
Reference	:	AEE(P)/RRNZ/BBMP/PR/118/2011-12 Dated: 28.05.2011
Date of Test	:	13.06.2011
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm²	Tensile strength (Ultimate stress) N/mm²	Elongation percent gauge length		
1	16	1.58	519	553	13.15	O.K	O.K
2	20	2.47	523	558	13.40	O.K	O.K

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Job No.: CTCE/BBMP/W.No.17/KRIDL/CUBE/2011-12 29.07.2011

TEST REPORT ON CONCRETE CUBES

Client	: **Asst. Executive Engineer,** Rajarajeshwarinagara (Projects), BBMP, Bangalore.
Agency	: **Technical Manager,** KRIDL, Bangalore
Name of the work	: Maintenance of Toilets at JP Park in Ward No. 17 in Rajarajeshwarinagara Zone, BBMP, Bangalore.
Reference	: AEE(P)/RRNZ/BBMP/PR/118/2011-12 Dated: 28.05.2011
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	01.07.2011	29.07.2011	8.257	478.6	21.27
2	01.07.2011	29.07.2011	8.315	495.8	22.04
3	01.07.2011	29.07.2011	8.432	512.6	22.78

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